

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	92	sub-block same ECC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:36
L2	139	sub-block same (ECC or error adj correction adj code)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:37
L3	92	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:37
L4	1	3 and transmit\$4 near5 information near5 stream	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:39
L5	1	4 and (error or correction or priority or quality or service or slot or receiver)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:41
L6	0	5 and divid\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:41
L7	0	5 and divi\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:41
L8	0	7 and encod\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:42
L9	1	5 and encod\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:42
L10	0	9 and layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:42

L11	1	9 and information near5 stream	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:43
L12	1	11 and sequen\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:43
L13	0	12 and repeat44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:43
L14	1	12 and repeat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:44
L15	0	14 AND HYBRID	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:44
L16	0	14 AND HARQ	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:45
L17	0	14 AND FAILURE	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:45
L18	0	14 and fail\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:45
L19	1	14 and sub-block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:46
L20	1	19 and good	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:46

L21	1	20 and reception	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:46
L22	17	("4649543" "4651327" "4809305" "5121408" "5233632" "5245428" "5349611" "5400368").PN. OR ("5511099").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 13:54
L23	0	(transmit\$4 and information and stream and sub-block).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:55
L24	7	(transmit\$4 and information and stream and block).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:56
L25	3	(transmit\$4 and information and stream and sub-block).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 13:59
L26	299	sub-block near6 error	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:00
L27	216	(transmit\$4 same information same sub-block)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:00
L28	44	26 and 27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:01
L29	2	28 and divid\$4 same stream same slot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:02
L30	2	29 and transmit\$4 same slot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:03

L31	2	30 and error	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:04
L32	1	31 and fail\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:03
L33	2	31 and sequen\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:04
L34	2	33 and reception	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:48
L37	1	34 and (good and fail\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:47
L38	0	33 and reception34 and (HARQ or hybrid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:08
L39	225728	(HARQ or hybrid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:08
L40	561	(HARQ)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:09
L41	1	40 and fail\$4 same sub-block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:09
L42	0	40 and fail\$4 same subblock	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:10

L43	1	40 and fail\$4 same sub near5 block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:10
L44	26	("4763325" "4881241" "5228025" "5274629" "5289471" "5327429" "5329548" "5416801" "5511110" "5533004" "5546400").PN. OR ("5648967").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:13
L45	18	44 and error	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:13
L46	0	45 and (sub-block)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:13
L47	3	45 and divid\$4 near5 block	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:14
L48	1	fail\$4 near5 sub-block same error same transmit\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:16
L49	3	repeat\$4 near6 fail\$4 near5 sub-block	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/21 14:16
L50	0	37 and sub-bkock same error	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:47
L51	0	34 and sub-bkock same error	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:47
L52	2	34 and quality	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 14:48
L53	2	52 and service	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:00
L54	1	53 and (error adj correction adj code or ECC)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:01

L55	2	"5511099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:00
L56	1	55 and (error adj correction adj code or ECC)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:02
L57	0	56 and slot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:02
L58	0	56 and divid\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:03
L59	1	56 and sequen\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:04
L60	1	59 and sub-block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:05
L61	1	60 and receiver	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:05
L62	1	61 and stream	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:06
L63	1	62 and time near5 interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:07
L64	1	63 and transmi\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:07

L65	1	63 and transmi\$4 same data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:08
L66	0	65 and layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/21 15:08

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :

H04L 1/18

A1

(11) International Publication Number:

WO 00/25469

(43) International Publication Date:

4 May 2000 (04.05.00)

(21) International Application Number: PCT/SE99/01910

(22) International Filing Date: 22 October 1999 (22.10.99)

(30) Priority Data:
60/105,372

23 October 1998 (23.10.98)

US

(71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON
(publ) [SE/SE]; S-126 25 Stockholm (SE).(72) Inventors: NYSTRÖM, Johan; Kronobergsgatan 22, S-112
33 Stockholm (SE). FURUSKÄR, Anders; Vanadisvägen
8, S-113 46 Stockholm (SE). JÄVERBRING, Stefan;
Glimmerstavägen 15, S-125 71 Älvsjö (SE). KHAN,
Farooq; 810 Solook Drive, Parlin, NJ 08859 (US).(74) Agent: ERICSSON RADIO SYSTEMS AB; Ericsson Re-
search/Patent Support, S-164 80 Stockholm (SE).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG,
BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS,
MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the
claims and to be republished in the event of the receipt of
amendments.

(54) Title: COMBINED HYBRID AUTOMATIC RETRANSMISSION REQUEST SCHEME

(57) Abstract

A transmitter operates using a scheme that allows receivers using either Type I Hybrid ARQ or receivers using Type II Hybrid ARQ to successfully receive and decode blocks from a common transmitter without the need for the transmitter be informed of which scheme is being employed by the receivers.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						